

## Mycotoxin Proficiency Testing, Z Scored Against Robust Except for \*

Issue Date: 04/30/2017

All Tests for Sample # 201761 Swine Feed

Disclaimer: Z scores are provided for research and method development purposes only!

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	21.3	20.9	Y	Y		100%	-0.73	25.141	5.531
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	21.1	22.9	Y	Y		100%	-0.57	25.141	5.531
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	22.1	22.4	Y	Y		100%	-0.52	25.141	5.531
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	23	22	Y	Y		100%	-0.48	25.141	5.531
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	23	22.4	Y	Y		100%	-0.44	25.141	5.531
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	23	22.7	Y	Y		100%	-0.41	25.141	5.531
2164	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	24.8	25	Y	Y		100%	-0.04	25.141	5.531
2113	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	28.2	29.4	Y	Y		100%	0.66	25.141	5.531
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	30	29.2	Y	Y		100%	0.81	25.141	5.531
0529	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	33.2	27.8	Y	Y		100%	0.97	25.141	5.531
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	31.4	31.5	Y	Y		100%	1.14	25.141	5.531
0656	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Qu	28	28	Y	Y		100%	0.52	25.141	5.531
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Qu	40	31	Y	Y		100%	1.87	25.141	5.531
0656	600.07	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 1-20p	27.5	27.5	Y	Y		100%	0.43	25.141	5.531
0674	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40p	26.14	26.14	Y	Y		100%	0.18	25.141	5.531
0043	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40p	32.8	32.6	Y	Y		100%	1.37	25.141	5.531
0674	600.10	Total Aflatoxin (ppb)	TLC	17.51	17.51	Y	Y		100%	-1.38	25.141	5.531
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	13.6	15	Y	Y		100%	-1.96	25.141	5.531
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	15.8	16.3	Y	Y		100%	-1.64	25.141	5.531
2066	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	20.3	22.7	Y	Y		100%	-0.66	25.141	5.531
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	16.357	13.856	Y	Y		100%	-1.81	25.141	5.531
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	28.991	31.669	Y	Y		100%	0.94	25.141	5.531
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	36.365	39.976	Y	Y		100%	2.36	25.141	5.531
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	19	19	Y	Y		100%	-1.11	25.141	5.531
2066	600.20	Total Aflatoxin (ppb)	LC	20.6	20.6	Y	Y		100%	-0.82	25.141	5.531
0042	600.20	Total Aflatoxin (ppb)	LC	25.1	23	Y	Y		100%	-0.20	25.141	5.531
0035	600.20	Total Aflatoxin (ppb)	LC	30.17	28.884	Y	Y		100%	0.79	25.141	5.531
0226	600.20	Total Aflatoxin (ppb)	LC	36.4	37.3	Y	Y		100%	2.12	25.141	5.531
0964	600.21	Total Aflatoxin (ppb)	LC-PCD FI	20.617	16.961	Y	Y		100%	-1.15	25.141	5.531
0027	600.21	Total Aflatoxin (ppb)	LC-PCD FI	20.758	21.74	Y	Y		100%	-0.70	25.141	5.531
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	29.15	24.26	Y	Y		100%	0.28	25.141	5.531
0009	600.24	Total Aflatoxin (ppb)	LC-MS/MS	27.086	30.097	Y	Y		100%	0.62	25.141	5.531
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	35	33.8	Y	Y		100%	1.67	25.141	5.531
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	18.3	17.4	Y	Y		100%	-1.32	25.141	5.531
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	28.5	21.2	Y	Y		100%	-0.05	25.141	5.531
2066	601.20	AB1 (ppb)	LC	11	11	Y	Y		100%	-2.22	21.461	4.721
0646	601.20	AB1 (ppb)	LC	16.45	14.4	Y	Y		100%	-1.28	21.461	4.721

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0913	601.20	AB1 (ppb)	LC	21.36	21.89	Y	Y		100%	0.03	21.461	4.721
0035	601.20	AB1 (ppb)	LC	27.501	26.43	Y	Y		100%	1.17	21.461	4.721
0027	601.21	AB1 (ppb)	LC-PCD FI	16.994	17.789	Y	Y		100%	-0.86	21.461	4.721
0964	601.21	AB1 (ppb)	LC-PCD FI	19.166	15.697	Y	Y		100%	-0.85	21.461	4.721
0596	601.21	AB1 (ppb)	LC-PCD FI	18.77	18.77	Y	Y		100%	-0.57	21.461	4.721
0098	601.21	AB1 (ppb)	LC-PCD FI	25.95	21.37	Y	Y		100%	0.47	21.461	4.721
0870	601.23	AB1 (ppb)	LC-MS/MS	19.16	19.16	Y	Y		100%	-0.49	21.461	4.721
2140	601.23	AB1 (ppb)	LC-MS/MS	24	17	Y	Y		100%	-0.20	21.461	4.721
0028	601.23	AB1 (ppb)	LC-MS/MS	17	24.07	Y	Y		100%	-0.20	21.461	4.721
0160	601.23	AB1 (ppb)	LC-MS/MS	21.8	22.1	Y	Y		100%	0.10	21.461	4.721
0913	601.23	AB1 (ppb)	LC-MS/MS	22.3	25.15	Y	Y		100%	0.48	21.461	4.721
2033	601.23	AB1 (ppb)	LC-MS/MS	26.3	24.2	Y	Y		100%	0.80	21.461	4.721
0009	601.23	AB1 (ppb)	LC-MS/MS	24.647	26.81	Y	Y		100%	0.90	21.461	4.721
0218	601.23	AB1 (ppb)	LC-MS/MS	32.2	31	Y	Y		100%	2.15	21.461	4.721
0345	601.23	AB1 (ppb)	LC-MS/MS			N	N	5	99.98%	NoZ	21.461	4.721
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	15.8	15.4	Y	Y		100%	-1.24	21.461	4.721
2023	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	20.5	23.4	Y	Y		100%	0.10	21.461	4.721
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	33.5	34.3	Y	Y		100%	2.63	21.461	4.721
2066	602.20	AB2 (ppb)	LC	1.61	1.61	Y	Y		100%	-1.28	2.244	0.494
0913	602.20	AB2 (ppb)	LC	1.99	1.93	Y	Y		100%	-0.58	2.244	0.494
0035	602.20	AB2 (ppb)	LC	2.669	2.454	Y	Y		100%	0.64	2.244	0.494
0646	602.20	AB2 (ppb)	LC	5.14	5.17	Y	Y		100%	5.90	2.244	0.494
0964	602.21	AB2 (ppb)	LC-PCD FI	1.451	1.264	Y	Y		100%	-1.80	2.244	0.494
0596	602.21	AB2 (ppb)	LC-PCD FI	1.66	1.66	Y	Y		100%	-1.18	2.244	0.494
0027	602.21	AB2 (ppb)	LC-PCD FI	2.402	2.184	Y	Y		100%	0.10	2.244	0.494
0098	602.21	AB2 (ppb)	LC-PCD FI	3.2	2.89	Y	Y		100%	1.62	2.244	0.494
2033	602.23	AB2 (ppb)	LC-MS/MS	1.7	1.5	Y	Y		100%	-1.30	2.244	0.494
0028	602.23	AB2 (ppb)	LC-MS/MS	1.92	2.34	Y	Y		100%	-0.23	2.244	0.494
0870	602.23	AB2 (ppb)	LC-MS/MS	2.2	2.2	Y	Y		100%	-0.09	2.244	0.494
0160	602.23	AB2 (ppb)	LC-MS/MS	2.2	2.6	Y	Y		100%	0.32	2.244	0.494
0913	602.23	AB2 (ppb)	LC-MS/MS	2.37	2.68	Y	Y		100%	0.57	2.244	0.494
0218	602.23	AB2 (ppb)	LC-MS/MS	2.8	2.8	Y	Y		100%	1.13	2.244	0.494
0009	602.23	AB2 (ppb)	LC-MS/MS	2.439	3.287	Y	Y		100%	1.25	2.244	0.494
0345	602.23	AB2 (ppb)	LC-MS/MS			N	N	5	0.00%	NoZ	2.244	0.494
2140	602.23	AB2 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	2.244	0.494
2023	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.7	0.9	Y	Y		100%	-2.93	2.244	0.494
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	1.9	2	Y	Y		100%	-0.60	2.244	0.494
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	2.9	3	Y	Y		100%	1.43	2.244	0.494
2066	603.20	AG1 (ppb)	LC	7.9	7.9	Y	Y		100%	27.94	1.105	0.243
0913	603.20	AG1 (ppb)	LC			N	N	1	66.74%	NoZ	1.105	0.243
0596	603.21	AG1 (ppb)	LC-PCD FI	0.59	0.59	Y	Y		100%	-2.12	1.105	0.243
0027	603.21	AG1 (ppb)	LC-PCD FI	1.362	1.767	Y	Y		100%	1.89	1.105	0.243
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	1.105	0.243
0964	603.21	AG1 (ppb)	LC-PCD FI			N	N	1	66.74%	NoZ	1.105	0.243
0870	603.23	AG1 (ppb)	LC-MS/MS	0.54	0.54	Y	Y		100%	-2.32	1.105	0.243

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0160	603.23	AG1 (ppb)	LC-MS/MS	0.995	1.14	Y	Y		100%	-0.16	1.105	0.243
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	66.74%	NoZ	1.105	0.243
0345	603.23	AG1 (ppb)	LC-MS/MS			N	N	5	0.00%	NoZ	1.105	0.243
0913	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	66.74%	NoZ	1.105	0.243
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	66.74%	NoZ	1.105	0.243
2140	603.23	AG1 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	1.105	0.243
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI	0.4	0.6	Y	Y		100%	-2.49	1.105	0.243
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	5	0.00%	NoZ	1.105	0.243
2023	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6	98.11%	NoZ	1.105	0.243
0913	604.20	AG2 (ppb)	LC			N	N	1			ND	
2066	604.20	AG2 (ppb)	LC			N	N	0.14			ND	
0098	604.21	AG2 (ppb)	LC-PCD FI			N	N	5			ND	
0964	604.21	AG2 (ppb)	LC-PCD FI			N	N	1			ND	
0160	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0218	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0345	604.23	AG2 (ppb)	LC-MS/MS			N	N	5			ND	
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2140	604.23	AG2 (ppb)	LC-MS/MS			N	N	20			ND	
0226	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	5			ND	
2023	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6			ND	
2053	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI	0.3	0.2	Y	Y				ND	
0554	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.6]	[1.8]	Y	Y		100%	-6.83	1,808	264.5
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	1,700	Y	Y		100%	-0.41	1,808	264.5
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	1,800	Y	Y		100%	-0.03	1,808	264.5
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	2,000	Y	Y		100%	0.35	1,808	264.5
2164	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,900	1,900	Y	Y		100%	0.35	1,808	264.5
0529	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	2,100	Y	Y		100%	0.35	1,808	264.5
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,900	2,000	Y	Y		100%	0.54	1,808	264.5
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,100	2,000	Y	Y		100%	0.92	1,808	264.5
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,100	Y	Y		100%	1.48	1,808	264.5
2113	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,100	2,400	Y	Y		100%	1.67	1,808	264.5
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,450	2,230	Y	Y		100%	2.01	1,808	264.5
0674	610.03	Deoxynivalenol (ppb)	Charm ROSA DON Quant	[0.9]	[0.9]	Y	Y		100%	-6.83	1,808	264.5
0656	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	1,800	1,800	Y	Y		100%	-0.03	1,808	264.5
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	2,900	3,600	Y	Y		100%	5.45	1,808	264.5
0656	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	2,060	2,060	Y	Y		100%	0.95	1,808	264.5
0043	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	2,470	2,450	Y	Y		100%	2.47	1,808	264.5
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	[1.5]	[1.4]	Y	Y		100%	-6.83	1,808	264.5
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	143	138	Y	Y		100%	-6.30	1,808	264.5
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,760	1,648	Y	Y		100%	-0.39	1,808	264.5
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,960	1,990	Y	Y		100%	0.63	1,808	264.5
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	2,006	2,064	Y	Y		100%	0.86	1,808	264.5
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,475	1,254	Y	Y		100%	-1.68	1,808	264.5

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	2,180	2,180	Y	Y		100%	1.41	1,808	264.5
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	1,500	1,600	Y	Y		100%	-0.97	1,808	264.5
0913	610.20	Deoxynivalenol (ppb)	LC	1,460	1,353	Y	Y		100%	-1.52	1,808	264.5
0098	610.20	Deoxynivalenol (ppb)	LC	1,500	1,600	Y	Y		100%	-0.97	1,808	264.5
2023	610.20	Deoxynivalenol (ppb)	LC	1,562	1,566	Y	Y		100%	-0.92	1,808	264.5
0027	610.20	Deoxynivalenol (ppb)	LC	1,800	2,000	Y	Y		100%	0.35	1,808	264.5
0413	610.20	Deoxynivalenol (ppb)	LC	1,900	2,000	Y	Y		100%	0.54	1,808	264.5
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	[1.64]	[1.72]	Y	Y		100%	-6.83	1,808	264.5
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,290	1,422	Y	Y		100%	-1.71	1,808	264.5
0345	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,326	1,550	Y	Y		100%	-1.40	1,808	264.5
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,585	1,443	Y	Y		100%	-1.11	1,808	264.5
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,666	1,678	Y	Y		100%	-0.51	1,808	264.5
0160	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,620	1,750	Y	Y		100%	-0.46	1,808	264.5
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,696	1,950	Y	Y		100%	0.06	1,808	264.5
0218	610.25	Deoxynivalenol (ppb)	GC-MS	1,687	1,617	Y	Y		100%	-0.59	1,808	264.5
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,400	1,300	Y	Y		100%	-1.73	1,808	264.5
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[6.5]	[6.1]	Y	Y		100%	-8.09	5,609	692.2
2113	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,100	5,300	Y	Y		100%	-0.59	5,609	692.2
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,390	5,200	Y	Y		100%	-0.45	5,609	692.2
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,000	6,000	Y	Y		100%	-0.16	5,609	692.2
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,700	5,700	Y	Y		100%	0.13	5,609	692.2
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,800	5,600	Y	Y		100%	0.13	5,609	692.2
2164	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6,400	5,600	Y	Y		100%	0.56	5,609	692.2
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	8,400	8,800	Y	Y		100%	4.32	5,609	692.2
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	[7.12]	[7]	Y	Y		100%	-8.09	5,609	692.2
0529	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	7,050	6,700	Y	Y		100%	1.83	5,609	692.2
0656	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	5,500	5,500	Y	Y		100%	-0.16	5,609	692.2
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	9,000	6,000	Y	Y		100%	2.73	5,609	692.2
0674	620.05	Total Fumonisin (ppb)	Charm ROSA FUMQ MeOH	[1.5]	[7.5]	Y	Y		100%	-8.10	5,609	692.2
0656	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisi	6,100	6,100	Y	Y		100%	0.71	5,609	692.2
0043	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisi	7,990	7,550	Y	Y		100%	3.12	5,609	692.2
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	[5.5]	[4.4]	Y	Y		100%	-8.10	5,609	692.2
2066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	502	460	Y	Y		100%	-7.41	5,609	692.2
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	4,232	3,775	Y	Y		100%	-2.32	5,609	692.2
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	4,680	4,660	Y	Y		100%	-1.36	5,609	692.2
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	6,016	5,934	Y	Y		100%	0.53	5,609	692.2
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	8,100	7,800	Y	Y		100%	3.38	5,609	692.2
0004	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	3,200	2,700	Y	Y		100%	-3.84	5,609	692.2
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	3,700	3,900	Y	Y		100%	-2.61	5,609	692.2
2023	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	2,351	2,556	Y	Y		100%	-4.56	5,609	692.2
0964	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	4,735	4,683	Y	Y		100%	-1.30	5,609	692.2
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	6,200	7,400	Y	Y		100%	1.72	5,609	692.2
0208	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	6,600	7,200	Y	Y		100%	1.86	5,609	692.2
0098	621.20	FB1 (ppb)	LC	3,000	3,100	Y	Y		100%	-2.83	4,755	601.6
0913	621.20	FB1 (ppb)	LC	4,738	5,150	Y	Y		100%	0.31	4,755	601.6

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0964	621.21	FB1 (ppb)	LC-FI OPA der.	3,569	3,579	Y	Y		100%	-1.96	4,755	601.6
0226	621.21	FB1 (ppb)	LC-FI OPA der.	4,700	5,200	Y	Y		100%	0.32	4,755	601.6
2053	621.22	FB1 (ppb)	LC-MS	[6.5]	[7.5]	Y	Y		100%	-7.89	4,755	601.6
0870	621.23	FB1 (ppb)	LC-MS/MS	[3.71]	[3.72]	Y	Y		100%	-7.90	4,755	601.6
2033	621.23	FB1 (ppb)	LC-MS/MS	4,975	4,120	Y	Y		100%	-0.35	4,755	601.6
0160	621.23	FB1 (ppb)	LC-MS/MS	4,530	5,140	Y	Y		100%	0.13	4,755	601.6
0913	621.23	FB1 (ppb)	LC-MS/MS	5,320	4,850	Y	Y		100%	0.55	4,755	601.6
2140	621.23	FB1 (ppb)	LC-MS/MS	4,763	5,939	Y	Y		100%	0.99	4,755	601.6
0345	621.23	FB1 (ppb)	LC-MS/MS	6,756	6,693	Y	Y		100%	3.27	4,755	601.6
0098	622.20	FB2 (ppb)	LC	700	800	Y	Y		100%	-2.37	1,189	185.2
0913	622.20	FB2 (ppb)	LC	1,175	1,338	Y	Y		100%	0.37	1,189	185.2
0964	622.21	FB2 (ppb)	LC-FI OPA der.	1,166	1,104	Y	Y		100%	-0.29	1,189	185.2
0226	622.21	FB2 (ppb)	LC-FI OPA der.	1,100	1,500	Y	Y		100%	0.60	1,189	185.2
2053	622.22	FB2 (ppb)	LC-MS	[1.6]	[2.8]	Y	Y		100%	-6.40	1,189	185.2
0870	622.23	FB2 (ppb)	LC-MS/MS	[1.58]	[1.46]	Y	Y		100%	-6.41	1,189	185.2
0913	622.23	FB2 (ppb)	LC-MS/MS	790	710	Y	Y		100%	-2.37	1,189	185.2
0160	622.23	FB2 (ppb)	LC-MS/MS	1,160	1,170	Y	Y		100%	-0.13	1,189	185.2
2140	622.23	FB2 (ppb)	LC-MS/MS	1,165	1,534	Y	Y		100%	0.87	1,189	185.2
2033	622.23	FB2 (ppb)	LC-MS/MS	1,409	1,460	Y	Y		100%	1.33	1,189	185.2
0345	622.23	FB2 (ppb)	LC-MS/MS	1,602	1,511	Y	Y		100%	1.99	1,189	185.2
0913	623.20	FB3 (ppb)	LC	662.5	700	Y	Y		100%	2.39	477.3	85.344
0226	623.21	FB3 (ppb)	LC-FI OPA der.	400	700	Y	Y		100%	0.85	477.3	85.344
2053	623.22	FB3 (ppb)	LC-MS	[0.9]	[1.1]	Y	Y		100%	-5.58	477.3	85.344
0870	623.23	FB3 (ppb)	LC-MS/MS	[0.74]	[0.69]	Y	Y		100%	-5.58	477.3	85.344
0160	623.23	FB3 (ppb)	LC-MS/MS	264	254	Y	Y		100%	-2.56	477.3	85.344
2033	623.23	FB3 (ppb)	LC-MS/MS	350	398	Y	Y		100%	-1.21	477.3	85.344
0913	623.23	FB3 (ppb)	LC-MS/MS	610	580	Y	Y		100%	1.38	477.3	85.344
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	13	12	Y	Y		100%	-2.85	33.536	7.378
0529	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	13.3	12.9	Y	Y		100%	-2.77	33.536	7.378
2164	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	18.5	17.9	Y	Y		100%	-2.08	33.536	7.378
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	31.6	44	Y	Y		100%	0.58	33.536	7.378
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	48.5	50	Y	Y		100%	2.13	33.536	7.378
0656	630.02	Ochratoxin A (ppb)	Charm ROSA Ochratoxin	45	45	Y	Y		100%	1.55	33.536	7.378
0674	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	27.42	27.42	Y	Y		100%	-0.83	33.536	7.378
0656	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	36.3	36.3	Y	Y		100%	0.37	33.536	7.378
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	25.333	22.879	Y	Y		100%	-1.28	33.536	7.378
2066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	34	36.5	Y	Y		100%	0.23	33.536	7.378
0407	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	42.03	44.27	Y	Y		100%	1.30	33.536	7.378
2129	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	80.7	83.3	Y	Y		100%	6.57	33.536	7.378
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest			N	N	30	68.41%	NoZ	33.536	7.378
0674	630.20	Ochratoxin A (ppb)	LC	25.41	25.41	Y	Y		100%	-1.10	33.536	7.378
0913	630.20	Ochratoxin A (ppb)	LC	30.02	28.75	Y	Y		100%	-0.56	33.536	7.378
2066	630.20	Ochratoxin A (ppb)	LC	36.2	36	Y	Y		100%	0.35	33.536	7.378
2023	630.20	Ochratoxin A (ppb)	LC	38.9	36.6	Y	Y		100%	0.57	33.536	7.378
0098	630.20	Ochratoxin A (ppb)	LC	56.7	45.9	Y	Y		100%	2.41	33.536	7.378

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0964	630.21	Ochratoxin A (ppb)	LC-PCD FI	26.8	29.8	Y	Y		100%	-0.71	33.536	7.378
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	27	24	Y	Y		100%	-1.09	33.536	7.378
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	32.2	27.7	Y	Y		100%	-0.49	33.536	7.378
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	36.08	31.2	Y	Y		100%	0.01	33.536	7.378
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	35	34	Y	Y		100%	0.13	33.536	7.378
0160	630.23	Ochratoxin A (ppb)	LC-MS/MS	40.3	29	Y	Y		100%	0.15	33.536	7.378
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	41	36	Y	Y		100%	0.67	33.536	7.378
0345	630.23	Ochratoxin A (ppb)	LC-MS/MS			N	N	50	1.28%	NoZ	33.536	7.378
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	29	39.2	Y	Y		100%	0.08	33.536	7.378
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	457.6	418.4	Y	Y		100%	0.89	376	69.686
0656	640.03	T-2 (ppb)	Romer AgraQuant T-2	542.5	530.4	Y	Y		100%	2.30	376	69.686
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	342	308	Y	Y		100%	-0.73	376	69.686
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	343.7	339.1	Y	Y		100%	-0.50	376	69.686
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	627.6	667.7	Y	Y		100%	3.90	376	69.686
0345	640.23	T-2 (ppb)	LC-MS/MS	13.4	16.2	Y	Y		100%	-5.18	376	69.686
2140	640.23	T-2 (ppb)	LC-MS/MS	342	247	Y	Y		100%	-1.17	376	69.686
0870	640.23	T-2 (ppb)	LC-MS/MS	327.8	310.8	Y	Y		100%	-0.81	376	69.686
0913	640.23	T-2 (ppb)	LC-MS/MS	332.3	314.9	Y	Y		100%	-0.75	376	69.686
0160	640.23	T-2 (ppb)	LC-MS/MS	398	398	Y	Y		100%	0.32	376	69.686
0218	640.23	T-2 (ppb)	LC-MS/MS	401	399	Y	Y		100%	0.34	376	69.686
2033	640.23	T-2 (ppb)	LC-MS/MS	400	400	Y	Y		100%	0.34	376	69.686
0913	640.24	T-2 (ppb)	GC-ECD	445.6	318.4	Y	Y		100%	0.09	376	69.686
0913	641.23	HT-2 (ppb)	LC-MS/MS	106.7	94.6	Y	Y		100%	-0.81	122.5	26.877
0870	641.23	HT-2 (ppb)	LC-MS/MS	110.6	115.8	Y	Y		100%	-0.34	122.5	26.877
0218	641.23	HT-2 (ppb)	LC-MS/MS	135	128	Y	Y		100%	0.34	122.5	26.877
2140	641.23	HT-2 (ppb)	LC-MS/MS	151	112	Y	Y		100%	0.34	122.5	26.877
0913	641.24	HT-2 (ppb)	GC-ECD	158.7	112.5	Y	Y		100%	0.49	122.5	26.877
2113	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	410	430	Y	Y		100%	-3.60	992	158.9
0529	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	486.4	461.2	Y	Y		100%	-3.26	992	158.9
0227	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	857	832	Y	Y		100%	-0.93	992	158.9
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	839	884	Y	Y		100%	-0.82	992	158.9
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,504	1,113	Y	Y		100%	1.99	992	158.9
0964	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	1,223	1,165	Y	Y		100%	1.27	992	158.9
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	2,400	2,500	Y	Y		100%	9.18	992	158.9
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	322.4	323	Y	Y		100%	-1.40	432.2	78.442
2113	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	350	300	Y	Y		100%	-1.37	432.2	78.442
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	358.5	372	Y	Y		100%	-0.85	432.2	78.442
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	420.3	363.2	Y	Y		100%	-0.52	432.2	78.442
2164	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	411.5	445.1	Y	Y		100%	-0.05	432.2	78.442
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	495	550.2	Y	Y		100%	1.15	432.2	78.442
0529	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	538.6	589.1	Y	Y		100%	1.68	432.2	78.442
0674	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	[0.15]	[0.17]	Y	Y		100%	-5.51	432.2	78.442
0656	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	505	505	Y	Y		100%	0.93	432.2	78.442
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	455	706	Y	Y		100%	1.89	432.2	78.442
0656	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	537.1	537.1	Y	Y		100%	1.34	432.2	78.442

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0043	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	661	586	Y	Y		100%	2.44	432.2	78.442
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	288	336	Y	Y		100%	-1.53	432.2	78.442
2066	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	365.2	335	Y	Y		100%	-1.05	432.2	78.442
0009	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	389.8	370.7	Y	Y		100%	-0.66	432.2	78.442
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	559.8	541.8	Y	Y		100%	1.51	432.2	78.442
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	231.6	217.7	Y	Y		100%	-2.65	432.2	78.442
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	538.2	532.4	Y	Y		100%	1.31	432.2	78.442
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	564.3	593.6	Y	Y		100%	1.87	432.2	78.442
0646	650.20	Zearalenone (ppb)	LC	162.6	167.7	Y	Y		100%	-3.40	432.2	78.442
0413	650.20	Zearalenone (ppb)	LC	400	400	Y	Y		100%	-0.41	432.2	78.442
0913	650.20	Zearalenone (ppb)	LC	374.7	438.5	Y	Y		100%	-0.33	432.2	78.442
0098	650.20	Zearalenone (ppb)	LC	430	440	Y	Y		100%	0.04	432.2	78.442
2023	650.20	Zearalenone (ppb)	LC	444	459	Y	Y		100%	0.25	432.2	78.442
0964	650.22	Zearalenone (ppb)	LC-FI, AOCS	287.9	238.2	Y	Y		100%	-2.16	432.2	78.442
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS	450	400	Y	Y		100%	-0.09	432.2	78.442
0870	650.24	Zearalenone (ppb)	LC-MS/MS	177	166.7	Y	Y		100%	-3.32	432.2	78.442
0160	650.24	Zearalenone (ppb)	LC-MS/MS	367	335	Y	Y		100%	-1.04	432.2	78.442
2033	650.24	Zearalenone (ppb)	LC-MS/MS	490	450	Y	Y		100%	0.48	432.2	78.442
2140	650.24	Zearalenone (ppb)	LC-MS/MS	573	414	Y	Y		100%	0.78	432.2	78.442
0913	650.24	Zearalenone (ppb)	LC-MS/MS	591.8	434.3	Y	Y		100%	1.03	432.2	78.442
0218	650.24	Zearalenone (ppb)	LC-MS/MS	656	551	Y	Y		100%	2.18	432.2	78.442
0345	650.24	Zearalenone (ppb)	LC-MS/MS			N	N	50	100.00%	NoZ	432.2	78.442

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). If only 1 of 2 results detected Z is Grey and Probability of Detection is for the Non-Detect (see documentation). A Red NoZ indicates both results Not Detected with a Probability Of Detecting a single value. Where the Assigned Value is ND then the LOD follows as (LOD) in the Analyte units. An asterix on the Analyte name indicates Reference Lab Value Used as Assigned Value and Z scores are calculated against the reference Lab. Results in square brackets not used in Robust calculations.